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- 61** [Interactive navigation services through value-added CycloMedia pan](#)
[Edward Verbree, Siyka Zlatanova, Kees Smit](#)
 March 2004 **ICEC '04**: Proceedings of the 6th international conference on E
Publisher: ACM

Full text available: [Pdf](#) (685.38 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 27, Citation

Most people have problems to understand the scenery of a city using ju
 descriptive city guides. Especially maintaining the route by comparing tl
 map and to get directions where to go by a written guidance ...

Keywords: CycloMedia, interactive navigation, measurements, mobile

- 62** [Combination of Fisher scores and appearance based features for fac](#)
[Ling Chen, Hong Man](#)
 November 2003 **WBMA '03**: Proceedings of the 2003 ACM SIGMM worksho
 applications

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (422.83 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 63, Citation

A novel feature generation scheme which combines multiclass mapping
 appearance based features for face recognition (FR) is proposed in this
 of Fisher scores is based on partial derivative analysis of parameters ...

Keywords: Fisher score, hidden Markov model, linear discriminant ana

- 63** [Retrieving 3D shapes based on their appearance](#)
[Ryutarou Ohbuchi, Masatoshi Nakazawa, Tsuyoshi Takei](#)
 November 2003 **MIR '03**: Proceedings of the 5th ACM SIGMM international
 information retrieval

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (559.66 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

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In this paper, we propose an algorithm for shape-similarity comparison defined as polygon soup. One of the issues in comparing 3D shapes is the representations used to represent these "3D" shapes. While a ...

Keywords: depth map, geometric modeling, polygon soup, polygonal ray search, three-dimensional models

64 Nonlinear optimization framework for image-based modeling on programmable hardware

 Karl E. Hillesland, Sergey Molinoy, Radek Grzeszczuk
July 2003 **SIGGRAPH '03: SIGGRAPH 2003 Papers**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Mov](#) (24:3 MIN),  [Pdf](#) (1.32 MB) Additional Information: [full citation](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 76, Citation

Graphics hardware is undergoing a change from fixed-function pipelines to programmable organizations that resemble general purpose stream processors. In this paper, we present general algorithms, not normally associated with computer graphics, ...

Keywords: image-based modeling, nonlinear optimization, programmable hardware

Also published in:

July 2003 **Transactions on Graphics (TOG)** Volume 22 Issue 3

65 A geometric database for gene expression data

Tao Ju, Joe Warren, Gregor Eichele, Christina Thaller, Wah Chiu, James Ca
June 2003 **SGP '03: Proceedings of the 2003 Eurographics/ACM SIGGRAPH**
processing


Publisher: Eurographics Association

Full text available:  [Pdf](#) (2.29 MB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 22, Citation

As the logical next step after sequencing the mouse genome, biologists need methods for rapidly determining where each of the 30K genes in the mouse genome is expressed. Applying these methods to the mouse brain, biologists ...

66 A compact and efficient image retrieval approach based on border/interior pixel classification

 Renato O. Stehling, Mario A. Nascimento, Alexandre X. Falcão
November 2002 **CIKM '02: Proceedings of the eleventh international conference on knowledge management**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (890.44 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 87, Citation

This paper presents \bic (*Border/Interior pixel Classification*), a compact and efficient image retrieval approach suitable for broad image domains. It has three main components: a powerful image analysis algorithm that classifies ...

Keywords: CBIR, color histogram, content-based image retrieval, dista

67 [Side views: persistent, on-demand previews for open-ended tasks](#)

 Michael Terry, Elizabeth D. Mynatt

October 2002 **UIST '02: Proceedings of the 15th annual ACM symposium on user interface software and technology**

Publisher: ACM  [Request Permissions](#)

At

Full text available:  Mov (300.00 bytes),  Pdf (479.12 KB),  Wmv (300.00 bytes)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 77, Citation


We introduce Side Views, a user interface mechanism that provides on-demand previews of commands. Side Views are designed to explicitly satisfy the needs of expert users engaged in opened tasks. In this paper, ...

68 [NLP found helpful \(at least for one text categorization task\)](#)

Carl Sable, Kathleen McKeown, Kenneth W. Church

July 2002 **EMNLP '02: Proceedings of the ACL-02 conference on Empirical methods in natural language processing - Volume 10**, Volume 10


Publisher: Association for Computational Linguistics

Full text available:  Pdf (353.02 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 22, Citation

Attempts to use natural language processing (NLP) for text categorization (IR) have had mixed results. Nevertheless, there is a strong intuition that for some tasks. In this paper, we discuss a task ...

69 [Visual image query](#)

 Krešimir Matković, László Neumann, Johannes Siglaer, Martin Kompast, Werner

June 2002 **SMARTGRAPH '02: Proceedings of the 2nd international symposium on smart graphics**

Publisher: ACM

Full text available:  Pdf (5.98 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation

The explosion of storage media size and bandwidth has led to huge image databases. Finding a particular image based on a crude description by the user is tedious, but also subjective and therefore often incorrect. ...


Keywords: color layout query, digital image matching, human percepti

70 [Theory of keyblock-based image retrieval](#)

 Lei Zhu, Ai Bing Rao, Aldong Zhang

April 2002 **Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (2.14 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 146, Citation

The success of text-based retrieval motivates us to investigate analogous support the querying and browsing of image data. However, images differ both syntactically and semantically in their mode of representing ...

Keywords: clustering, codebook, content-based image retrieval, keybl

71 [Viewpoint motion control by body position in immersive projection display](#)

 Kikuo Asai, Noritaka Osawa, Yuji Y. Sugimoto, Yoshiaki Tanaka

March 2002 **SAC '02**: Proceedings of the 2002 ACM symposium on Applied

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (528.66 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 18, Citation

We have developed a vision-based interface based on body position for immersive projection display. The 3D position of the arms and head of the user is tracked by image processing without the need to attach devices to the user. ...

Keywords: body position, image processing, immersive projection display

72 [A system for synthesizing optimized FPGA hardware from MATLAB](#)

Malay Halder, Anshuman Nayak, Alok Choudhary, Prith Banerjee

November 2001 **ICCAD '01**: Proceedings of the 2001 IEEE/ACM international conference on computer-aided design

Publisher: IEEE Press

Full text available:  Pdf (158.74 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 73, Citation



Efficient high level design tools that can map behavioral descriptions to hardware are needed to leverage the key requirements to fully leverage FPGA for high throughput commercial market pressures. We present a compiler that takes as input ...

73 [Quantitative comparative evaluation of 2D vector field visualization methods](#)

David H. Laidlaw, J. Scott Davidson, Timothy S. Miller, Marco da Silva, R. A. Michael Tarr

October 2001 **VIS '01**: Proceedings of the conference on Visualization '01


Publisher: IEEE Computer Society

Full text available:  [Publisher Site](#),  Pdf (2.23 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 43, Citation

We present results from a user study that compared six visualization methods. Two methods used different distributions of short arrows, two used different streamlines, one used wedges located to suggest flow lines, ...

Keywords: advection, critical point, fluid dynamics, fluid flow, iconic representations, streamlines, jittered grid icons, line-integral convolution, scientific visualization, dimensional vector fields, user study

-  [A practical model for subsurface light transport](#)
 Henrik Wann Jensen, Stephen R. Marschner, Marc Levoy, Pat Hanrahan
 August 2001 **SI GGRAPH '01**: Proceedings of the 28th annual conference on
 interactive techniques

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.45 MB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 220, Citations

This paper introduces a simple model for subsurface light transport in tr model enables efficient simulation of effects that BRDF models cannot c bleeding within materials and diffusion of light across shadow ...

Keywords: BSSRDF, diffusion theory, light transport, realistic image sy subsurface scattering

- 75 [Hidden line removal for 2D cartoon images](#)
 Zhanggui Zeng, Hong Yan
 May 2001 **VIP '01: Proceedings of the Pan-Sydney area workshop on processing - Volume 11**, Volume 11

Publisher: Australian Computer Society, Inc.


Full text available:  Pdf (56.06 KB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 21, Citation

In this paper, we describe a hidden line removal scheme for 2D cartoon introduced to the polylines of the image. The surfaces of the image are updated according to the depths of polylines forming the ...

Keywords: cartoon image, depth, hidden line, surface, visibility

- 76 [A constructive algorithm for memory-aware task assignment and sch](#)
 Radosław Szymanek, Krzysztof Kuchciński
 April 2001 **CODES '01**: Proceedings of the ninth international symposium
 codesign

Publisher: ACM

Full text available:  Pdf (618.45 KB)

Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 19, Citation

This paper presents a constructive algorithm for memory-aware task as which is a part of the prototype system MATAS. The algorithm is well su processing applications which have hard memory constraints as ...

Keywords: constraint programming, memory constraints, task assignm

- 77 [Shape matching using edit-distance: an implementation](#)
 Phillip N. Klein, Thomas B. Sebastian, Benjamin B. Kimia
 January 2001 **SODA '01**: Proceedings of the twelfth annual ACM-SIAM sym
 algorithms

Publisher: Society for Industrial and Applied Mathematics

Full text available:  Pdf (801.58 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 55, Citation

We report on our experience with the implementation of an algorithm for computing the edit-distance between their medial axes. A shape-comparison to various visual transformations has several applications in ...

78 Advanced feature extraction for Keyblock-based image retrieval

 Lei Zhu, Aibing Rao, Aidong Zhang
November 2000 **MULTIMEDIA '00**: Proceedings of the 2000 ACM workshop


Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (734.94 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation

Keyblock, which is a new framework we proposed for content-based image retrieval, is a generalization of the text-based information retrieval technology in the framework, keyblocks, which are analogous to keywords in text ...

79 Keyblock: an approach for content-based image retrieval

 Lei Zhu, Aidong Zhang, Aibing Rao, Rohini Srihari
October 2000 **MULTIMEDIA '00**: Proceedings of the eighth ACM international

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (833.12 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 45, Citation

We propose a new framework termed *Keyblock* for content-based image retrieval, which is a generalization of the text-based information retrieval technology in the framework, methods for extracting comprehensive image features ...

80 How large should a digital desk be?: qualitative results of a comparison

 Ame Elliott, Marti A. Hearst
April 2000 **CHI '00**: CHI '00 extended abstracts on Human factors in computing

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (233.13 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 7, Citation

Qualitative results are presented of a user study comparing a large digital tablet with stylus, and a standard monitor and mouse. Participants split their time between the tablet and the mouse for a sketching task, but generally ...

Keywords: digital desk, information retrieval, interaction design

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